Aerospace America

Index to AA
Vol. 26, Nos. 1-12

Subjects

AIRCRAFT DESIGN AND TECHNOLOGY

The fix for tough spots, Jan., p. 24.
Deciphering clues to Soviet composites, Jan., p. 30.
Laminar flow control is maturing, Jan., p. 20.
Dragging down fuel costs, Jan., p. 14.
NLF technology is ready to go, Jan., p. 16.
Necessary follow-through, Feb., p. 5.
Keeping a sharp technology edge, Feb., p. 24.
Control muscle for agile aircraft, Feb., p. 32.
Flight testing keeps pace, Feb., p. 14.
Squeezing the test cycle, Feb., p. 17.
Workhorse MD-80, Feb., p. 20.
West German wavering threatens EFA go-ahead, March, p. 14.
Airlifter consortium is growing, April, p. 10.
X-wing faces a tough comeback, April, p. 8.
Aeronautics in Germany, April, p. 49.
Agility in demand, May, p. 36.
Tracking vorticity in flight, June, p. 42.
Airbus to clean house, June, p. 12.
Japan is making FSX its own, June, p. 14.
AT^3 and V-22, June, p. 28.
Cost-of-a-cassette air safety, Aug., p. 32.
Flutter suppression within reach, Aug., p. 14.
Filling the expertise gap, Aug., p. 16.
Coupling structure and controls design, Aug., p. 18.
Active control in tomorrow's marketplace, Aug., p. 20.
Building the foundation, Oct., p. 15.
Another chance for canards, Oct., p. 24.
Return of the turboprops, Oct., p. 14.
Toward the future, Oct., p. 20.
Israeli aeronautics after Lavi, Nov., p. 8.
Close air support bogs down, Dec., p. 83.
Aerospace '88: Aeroacustics, Dec., p. 36.
Aerospace '88: Aerospace maintenance, Dec., p. 16.
Aerospace '88: Air transportation, Dec., p. 42.
Aerospace '88: Aircraft design, Dec., p. 70.
Aerospace '88: Atmospheric flight mechanics, Dec., p. 50.
Aerospace '88: Flight simulation, Dec., p. 60.
Aerospace '88: Flight testing, Dec., p. 52.
Aerospace '88: General aviation, Dec., p. 48.
Aerospace '88: Ground testing, Dec., p. 56.
Aerospace '88: Lighter-than-air, Dec., p. 28.
Aerospace '88: Structures, Dec., p. 22.
Aerospace '88: V/STOL, Dec., p. 34.
Aerospace '88: Aircraft operations, Dec., p. 35.

AVIONICS AND ELECTRONICS

Linking islands of automation, Feb., p. 39.
Electronics investors to cash in on INF treaty, March, p. 54.
Simulator closes in on reality, April, p. 46.
Shrinking electronics boost satellite utility, April, p. 22.
AWACS no pot of gold, May, p. 12.
Avionics that beat the numbers, May, p. 48.
The foreign chip threat: less than meets the eye, July, p. 58.
Cost-of-a-cassette air safety, Aug., p. 32.
Solid-state photomultiplier, Nov., p. 40.
Aerospace '88: Digital avionics, Dec., p. 64.
Aerospace '88: Guidance, navigation, and control, Dec., p. 62.
Aerospace '88: Sensors, Dec., p. 39.

COMMUNICATIONS

Connectivity is the key, Sept., p. 24.
Computing with photons, Oct., p. 28.
Aerospace '88: C^{3}I, Dec., p. 54.

COMPUTERS AND SOFTWARE

Fitting the computer to the job, April, p. 34.
Computers that learn, June, p. 32.
Rise of the super transputer, July, p. 16.
Close to real life, July, p. 18.
SDI's software mountain, July, p. 28.
The language of abstraction, July, p. 32.
Birth of a programming language, July, p. 10.
Computer-enhanced learning, Sept., p. 40.
Computer infatuation, Sept., p. 7.
Aerospace '88: CAD/CAM, Dec., p. 18.
Aerospace '88: Computer systems, Dec., p. 68.
Aerospace '88: Interactive computer graphics, Dec., p. 29.
Aerospace '88: Software, Dec., p. 15.
Aerospace '88: Systems effectiveness and safety, Dec., p. 66.

EDUCATION

Route to the top, Jan., p. 5.
Engineers for China's future, Jan., p. 6.
Fixes emerge for U.S. engineering education, Jan., p. 56.
Computer-enhanced learning, Sept., p. 40.

INSTRUMENTATION AND TECHNOLOGY

Flight testing keeps pace, Feb., p. 14.
Squeezing the test cycle, Feb., p. 17.
Workhorse MD-80, Feb., p. 20.
Back toward square one, March, p. 30.
Collision avoidance in flying, April, p. 70.
An occasion to mass produce, April, p. 26.
Transonic tunnel gets go-ahead, Sept., p. 12.
A tight grip in tight spots, Oct., 40.
Designing for uncertainty, Nov., p. 36.
Aerospace '88: Guidance, navigation, and control, Dec., p. 62.

INTERNATIONAL

Engineers for China's future, Jan., p. 6.
U.K. breaks with continental Europe, Jan., p. 10.
Japan takes charge, March, p. 23.
West German wavering threatens EFA go-ahead, March, p. 14.
China's springboard to space, March, p. 16.
Airlifter consortium is growing, April, p. 10.
AWACS no pot of gold, May, p. 12.
China's coming of age in space, May, p. 40.
The foreign chip threat: less than meets the eye, July, p. 58.
Europe's toughest space challenge, Aug., p. 12.
Mission to Phobos, Sept., p. 34.
Toward permanence in joint defense R&D, Oct., p. 12.
Israeli aeronautics after Lavi, Nov., p. 8.

MANAGEMENT

Back toward square one, March, p. 30.
Aerospace '88: Management, Dec., p. 19.

MATERIAL

Stick-to-it riblets, Jan., p. 48.
Deciphering clues to Soviet composites, Jan., p. 30.
Smoothing intermetallics brittle edge, March, p. 36.
Enough power in a small package, April, p. 18.
Kryptonite they are not, May, p. 16.
Gas turbines challenge ceramic technology, May, p. 22.
Making high-tech composites in low-cost ways, May, p. 28.
Satellite communication's ace in the hole, May, p. 32.
Options double in high performance tapes, May, p. 56.
Injection molding of ceramics, July, p. 48.
Beyond simulation, July, p. 38.
Transonic tunnel gets go-ahead, Sept., p. 12.
Composites break the ice, Sept., p. 46.
Letter from Helsinki, Sept., p. 10.
Japan to process materials in microgravity, Sept., p. 14.
Metal matrix composites: their time has come, Nov., p. 14.
Aerospace '88: Materials, Dec., p. 30.

MILITARY SYSTEMS

Revival of unmanned aircraft, Nov., p. 10.
Reshuffling the missile deck, Nov., p. 12.
Close air support bogs down, Dec., p. 83.

MISSILES

ASAT nears the end, Feb., p. 8.
Midgetman survival linked to arms control, Feb., p. 6.
Aerospace '88: Missiles, Dec., p. 72.

POLICY

ASAT nears the end, Feb., p. 8.
Midgetman survival linked to arms control, Feb., p. 6.
Electronics investors to cash in on INF treaty, March, p. 54.
Shuttle payloads: Little worse off than before, March, p. 10.
Back toward square one, March, p. 30.
Save the children, May, p. 5.
Space policy aims at Moon and Mars, May, p. 8.
Proposed FY89 NASA budget: Real or a mirage?, June, p. 10.
Standstill on orbital debris policy, June, p. 8.
Salvaging airline deregulation, July, p. 7.
Senator urges space advocates to speak with one voice, July, p. 14.
One less excuse, Aug., p. 5.
Congress moves toward subsidizing ELVs, Aug., p. 8.
Data-exchange curbs proving unworkable, Oct., p. .5.
Aerospace and campaign '88, Oct., p. .8.
Advanced Landsat: Real or ruse?, Oct., p. .10.
A lesson well learned, Nov., p. 5.
Revival of unmanned aircraft, Nov., p. 10.
NASA: Thirty years of space flight, Dec., p. 6.
Aerospace '88: Economics, Dec., p. 49.
Aerospace '88: Legal aspects, Dec., p. 37.
Aerospace '88: Support systems, Dec., p. 32.

PROPULSION AND COMBUSTION

Building the foundation, Oct., p. 15.
Return of the turboprops, Oct., p. 14.
Toward the future, Oct., p. 20.
Aerospace '88: Aerospace power, Dec., p. 47.
Aerospace '88: Air breathing propulsion, Dec., p. 58.
Aerospace '88: Electric propulsion, Dec., p. 61.
Aerospace '88: Liquid propulsion, Dec., p. 21.
Aerospace '88: Propellants and combustion, Dec., p. 67.
Aerospace '88: Solid rockets, Dec., p. 38.

SPACE AND ATMOSPHERIC SCIENCE

Measuring ocean waves from space, Jan., p. 34.
Piecing together the supernova puzzle, April, p. 38.
Research at the Earth's edge, April, p. 30.
Science in the driver's seat, April, p. 5.
Super magnets for large tunnels, June, p. 36.
Decision time on orbital debris, June, p. 16.
Standstill on orbital debris policy, June, p. 8.
Measuring debris, June, p. 18.
Predicting debris, June, p. 22.
Shielding against debris, June, p. 24.
Mission to planet Earth, July, p. 44.
Lubrication in space, Aug., p. 36.
Japan to process materials in microgravity, Sept., p. 14.
Watching a disappearing shield, Oct., p. 32.
Aerospace '88: Astrodynamics, Dec., p. 41.
Aerospace '88: Atmospheric environment, Dec., p. 14.
Aerospace '88: Plasmadynamics and lasers, Dec., p. 24.
Aerospace '88: Space processing, Dec., p. 46.
Aerospace '88: Thermophysics, Dec., p. 57.

SPACE STATION

Space station: What went wrong, Feb., p. 7.
Cosmonaut prefers Earth orbit staging for Mars trip, April, p. 68.
Getting ready to go, Sept., p. 16.
How the station will operate, Sept., p. 20.

Aerospace America

Index to AA
Vol. 26, Nos. 1-12

Subjects

AIRCRAFT DESIGN AND TECHNOLOGY

The fix for tough spots, Jan., p. 24.
Deciphering clues to Soviet composites, Jan., p. 30.
Laminar flow control is maturing, Jan., p. 20.
Dragging down fuel costs, Jan., p. 14.
NLF technology is ready to go, Jan., p. 16.
Necessary follow-through, Feb., p. 5.
Keeping a sharp technology edge, Feb., p. 24.
Control muscle for agile aircraft, Feb., p. 32.
Flight testing keeps pace, Feb., p. 14.
Squeezing the test cycle, Feb., p. 17.
Workhorse MD-80, Feb., p. 20.
West German wavering threatens EFA go-ahead, March, p. 14.
Airlifter consortium is growing, April, p. 10.
X-wing faces a tough comeback, April, p. 8.
Aeronautics in Germany, April, p. 49.
Agility in demand, May, p. 36.
Tracking vorticity in flight, June, p. 42.
Airbus to clean house, June, p. 12.
Japan is making FSX its own, June, p. 14.
AT^3 and V-22, June, p. 28.
Cost-of-a-cassette air safety, Aug., p. 32.
Flutter suppression within reach, Aug., p. 14.
Filling the expertise gap, Aug., p. 16.
Coupling structure and controls design, Aug., p. 18.
Active control in tomorrow's marketplace, Aug., p. 20.
Building the foundation, Oct., p. 15.
Another chance for canards, Oct., p. 24.
Return of the turboprops, Oct., p. 14.
Toward the future, Oct., p. 20.
Israeli aeronautics after Lavi, Nov., p. 8.
Close air support bogs down, Dec., p. 83.
Aerospace '88: Aeroacustics, Dec., p. 36.
Aerospace '88: Aerospace maintenance, Dec., p. 16.
Aerospace '88: Air transportation, Dec., p. 42.
Aerospace '88: Aircraft design, Dec., p. 70.
Aerospace '88: Atmospheric flight mechanics, Dec., p. 50.
Aerospace '88: Flight simulation, Dec., p. 60.
Aerospace '88: Flight testing, Dec., p. 52.
Aerospace '88: General aviation, Dec., p. 48.
Aerospace '88: Ground testing, Dec., p. 56.
Aerospace '88: Lighter-than-air, Dec., p. 28.
Aerospace '88: Structures, Dec., p. 22.
Aerospace '88: V/STOL, Dec., p. 34.
Aerospace '88: Aircraft operations, Dec., p. 35.

AVIONICS AND ELECTRONICS

Linking islands of automation, Feb., p. 39.
Electronics investors to cash in on INF treaty, March, p. 54.
Simulator closes in on reality, April, p. 46.
Shrinking electronics boost satellite utility, April, p. 22.
AWACS no pot of gold, May, p. 12.
Avionics that beat the numbers, May, p. 48.
The foreign chip threat: less than meets the eye, July, p. 58.
Cost-of-a-cassette air safety, Aug., p. 32.
Solid-state photomultiplier, Nov., p. 40.
Aerospace '88: Digital avionics, Dec., p. 64.
Aerospace '88: Guidance, navigation, and control, Dec., p. 62.
Aerospace '88: Sensors, Dec., p. 39.

COMMUNICATIONS

Connectivity is the key, Sept., p. 24.
Computing with photons, Oct., p. 28.
Aerospace '88: C^{3}I, Dec., p. 54.

COMPUTERS AND SOFTWARE

Fitting the computer to the job, April, p. 34.
Computers that learn, June, p. 32.
Rise of the super transputer, July, p. 16.
Close to real life, July, p. 18.
SDI's software mountain, July, p. 28.
The language of abstraction, July, p. 32.
Birth of a programming language, July, p. 10.
Computer-enhanced learning, Sept., p. 40.
Computer infatuation, Sept., p. 7.
Aerospace '88: CAD/CAM, Dec., p. 18.
Aerospace '88: Computer systems, Dec., p. 68.
Aerospace '88: Interactive computer graphics, Dec., p. 29.
Aerospace '88: Software, Dec., p. 15.
Aerospace '88: Systems effectiveness and safety, Dec., p. 66.

EDUCATION

Route to the top, Jan., p. 5.
Engineers for China's future, Jan., p. 6.
Fixes emerge for U.S. engineering education, Jan., p. 56.
Computer-enhanced learning, Sept., p. 40.

INSTRUMENTATION AND TECHNOLOGY

Flight testing keeps pace, Feb., p. 14.
Squeezing the test cycle, Feb., p. 17.
Workhorse MD-80, Feb., p. 20.
Back toward square one, March, p. 30.
Collision avoidance in flying, April, p. 70.
An occasion to mass produce, April, p. 26.
Transonic tunnel gets go-ahead, Sept., p. 12.
A tight grip in tight spots, Oct., 40.
Designing for uncertainty, Nov., p. 36.
Aerospace '88: Guidance, navigation, and control, Dec., p. 62.

INTERNATIONAL

Engineers for China's future, Jan., p. 6.
U.K. breaks with continental Europe, Jan., p. 10.
Japan takes charge, March, p. 23.
West German wavering threatens EFA go-ahead, March, p. 14.
China's springboard to space, March, p. 16.
Airlifter consortium is growing, April, p. 10.
AWACS no pot of gold, May, p. 12.
China's coming of age in space, May, p. 40.
The foreign chip threat: less than meets the eye, July, p. 58.
Europe's toughest space challenge, Aug., p. 12.
Mission to Phobos, Sept., p. 34.
Toward permanence in joint defense R&D, Oct., p. 12.
Israeli aeronautics after Lavi, Nov., p. 8.

MANAGEMENT

Back toward square one, March, p. 30.
Aerospace '88: Management, Dec., p. 19.

MATERIAL

Stick-to-it riblets, Jan., p. 48.
Deciphering clues to Soviet composites, Jan., p. 30.
Smoothing intermetallics brittle edge, March, p. 36.
Enough power in a small package, April, p. 18.
Kryptonite they are not, May, p. 16.
Gas turbines challenge ceramic technology, May, p. 22.
Making high-tech composites in low-cost ways, May, p. 28.
Satellite communication's ace in the hole, May, p. 32.
Options double in high performance tapes, May, p. 56.
Injection molding of ceramics, July, p. 48.
Beyond simulation, July, p. 38.
Transonic tunnel gets go-ahead, Sept., p. 12.
Composites break the ice, Sept., p. 46.
Letter from Helsinki, Sept., p. 10.
Japan to process materials in microgravity, Sept., p. 14.
Metal matrix composites: their time has come, Nov., p. 14.
Aerospace '88: Materials, Dec., p. 30.

MILITARY SYSTEMS

Revival of unmanned aircraft, Nov., p. 10.
Reshuffling the missile deck, Nov., p. 12.
Close air support bogs down, Dec., p. 83.

MISSILES

ASAT nears the end, Feb., p. 8.
Midgetman survival linked to arms control, Feb., p. 6.
Aerospace '88: Missiles, Dec., p. 72.

POLICY

ASAT nears the end, Feb., p. 8.
Midgetman survival linked to arms control, Feb., p. 6.
Electronics investors to cash in on INF treaty, March, p. 54.
Shuttle payloads: Little worse off than before, March, p. 10.
Back toward square one, March, p. 30.
Save the children, May, p. 5.
Space policy aims at Moon and Mars, May, p. 8.
Proposed FY89 NASA budget: Real or a mirage?, June, p. 10.
Standstill on orbital debris policy, June, p. 8.
Salvaging airline deregulation, July, p. 7.
Senator urges space advocates to speak with one voice, July, p. 14.
One less excuse, Aug., p. 5.
Congress moves toward subsidizing ELVs, Aug., p. 8.
Data-exchange curbs proving unworkable, Oct., p. .5.
Aerospace and campaign '88, Oct., p. .8.
Advanced Landsat: Real or ruse?, Oct., p. .10.
A lesson well learned, Nov., p. 5.
Revival of unmanned aircraft, Nov., p. 10.
NASA: Thirty years of space flight, Dec., p. 6.
Aerospace '88: Economics, Dec., p. 49.
Aerospace '88: Legal aspects, Dec., p. 37.
Aerospace '88: Support systems, Dec., p. 32.

PROPULSION AND COMBUSTION

Building the foundation, Oct., p. 15.
Return of the turboprops, Oct., p. 14.
Toward the future, Oct., p. 20.
Aerospace '88: Aerospace power, Dec., p. 47.
Aerospace '88: Air breathing propulsion, Dec., p. 58.
Aerospace '88: Electric propulsion, Dec., p. 61.
Aerospace '88: Liquid propulsion, Dec., p. 21.
Aerospace '88: Propellants and combustion, Dec., p. 67.
Aerospace '88: Solid rockets, Dec., p. 38.

SPACE AND ATMOSPHERIC SCIENCE

Measuring ocean waves from space, Jan., p. 34.
Piecing together the supernova puzzle, April, p. 38.
Research at the Earth's edge, April, p. 30.
Science in the driver's seat, April, p. 5.
Super magnets for large tunnels, June, p. 36.
Decision time on orbital debris, June, p. 16.
Standstill on orbital debris policy, June, p. 8.
Measuring debris, June, p. 18.
Predicting debris, June, p. 22.
Shielding against debris, June, p. 24.
Mission to planet Earth, July, p. 44.
Lubrication in space, Aug., p. 36.
Japan to process materials in microgravity, Sept., p. 14.
Watching a disappearing shield, Oct., p. 32.
Aerospace '88: Astrodynamics, Dec., p. 41.
Aerospace '88: Atmospheric environment, Dec., p. 14.
Aerospace '88: Plasmadynamics and lasers, Dec., p. 24.
Aerospace '88: Space processing, Dec., p. 46.
Aerospace '88: Thermophysics, Dec., p. 57.

SPACE STATION

Space station: What went wrong, Feb., p. 7.
Cosmonaut prefers Earth orbit staging for Mars trip, April, p. 68.
Getting ready to go, Sept., p. 16.
How the station will operate, Sept., p. 20.

Connectivity is the key, Sept., p. 24.
Getting more out of EVA, Nov., p. 29.
Designing for operations and support, Nov., p. 18.
Toward station operability, Nov., p. 21.
The orbital maneuvering vehicle, Nov., p. 24.

SPACE TRANSPORTATION

U.K. breaks with continental Europe, Jan., p. 10.
Gearing the H-2 for market competition, Jan., p. 12.
Renaissance of recoverable capsules, Feb., p. 11.
Close enough to count. March, p. 5.
Japan takes charge. March, p. 23.
China's springboard to space. March, p. 16.
Paperwork is a launch-vehicle roadblock, April, p. 16.
China's coming of age in space, May, p. 40.
Triggering private demand for space travel, June, p. 5.
Europe's toughest space challenge, Aug., p. 12.
Sweetening the orbital bottom line, Aug., p. 26.
Congress moves toward subsidizing ELVs, Aug., p. 8.
Space station's missing link, Sept., p. 58.
Far space shuttle, Nov., p. 32.
NASA: Thirty years of space flight, Dec., p. 6.
Aerospace '88: Space operations and support, Dec., p. 26.
Aerospace '88: Space transportation, Dec., p. 12.
Aerospace '88: Structural dynamics, Dec., p. 51.
Aerospace '88: Structures, Dec., p. 22.

SPACECRAFT

Measuring ocean waves from space, Jan., p. 34.
Soviets selling sharpest satellite imagery, March, p. 8.
Shuttle payloads: Little worse off than before, March, p. 10.
Cosmonaut prefers Earth orbit staging for Mars trip, April, p. 68.
Research at the Earth's edge, April, p. 30.
Enough power in a small package, April, p. 18.
An occasion to mass produce, April, p. 26.
Paperwork is a launch-vehicle roadblock, April, p. 16.
A niche for lightweight satellites, April, p. 14.
Shrinking electronics boost satellite utility, April, p. 22.
Satellite communication's ace in the hole, May, p. 32.
SDI boosts lightsat prospects, May, p. 70.
Mission to planet Earth, July, p. 44.
Mission to Phobos, Sept., p. 34.
Beyond the station, Sept., p. 30.
Letter from Helsinki, Sept., p. 10.
Coffee-can-sized spacecraft, Oct., p. 36.
The orbital maneuvering vehicle, Nov., p. 24.
NASA: Thirty years of space flight, Dec., p. 6.
Aerospace '88: Aerodynamic decelerators, Dec., p. 53.
Aerospace '88: Space systems, Dec., p. 44.
Aerospace '88: Structural dynamics, Dec., p. 51.

STRATEGIC DEFENSE INITIATIVE

SDI boosts lightsat prospects, May, p. 70.

Authors

A

ABEL, I.
Filling the expertise gap, Aug., p. 16.
ABELES, F.
Getting more out of EVA, Nov., p. 29.
ADAMS, R.E.
Aerospace '88: Lighter-than-air, Dec., p. 28.
ANDERS, J.B., WALSH, M.J., and BUSHNELL, D.M.
The fix for tough spots, Jan., p. 24.
ANDERSON, J.L., WOOD, G.M. JR., and SIEMERS, P.M.
Research at the Earth's edge, April, p. 30.
ASHLEY, H.
Flutter suppression within reach, Aug., p. 14.
AVANS, S.L.
See Cour-Palais, B.G., June, p. 24.

B

BABCOCK, R.R. JR.
See Christian, H., Dec., p. 14.
BAETZ, J.G.
Metal matrix composites: their time has come, Nov., p. 14.
BAILEY, F.R.
See Peterson, V.L., July, p. 18.
BAKER, D.J.
Mission to planet Earth, July, p. 44.
BARTLETT, D.W.
See Wagner, et al., Jan., p. 20.
BASTEDO, W.G. JR.
See Crabb, et al., Nov., p. 18.
BATTERTON, P.G.
Aerospace '88: V/STOL, Dec., p. 34.
BEAL, C.
Space station: What went wrong, Feb., p. 7.
BEAL, R.C.
Measuring ocean waves from space, Jan., p. 34.
BENNETT, G.R. and PADDOCK, S.G.
Toward station operability, Nov., p. 21.
BERKS, W.I.
Aerospace '88: CAD/CAM, Dec., p. 18.
BEST, J.T.
See Hunter, et al., Dec., p. 56.
BOHLMANN, R.E.
See Griffin, et al., May, p. 28.
BOYD, A.W.
Enough power in a small package, April, p. 18.
BOYDEN, R.P., KILGORE, R.A., TCHENG, P., and BRITCHER, C.P.
Super magnets for large tunnels, June, p. 36.
BRITCHER, C.P.
See Boyden, et al., June, p. 36.
BROWDE, A.
Shrinking electronics boost satellite utility, April, p. 22.
BROWN, A.S.
Smoothing intermetallics' brittle edge, March, p. 36.
BROWN, R.M.
See Sundin, et al., Dec., p. 32.
BUSHNELL, D.M.
See Anders, et al., Jan., p. 24.
BUTLER, C.N.
See Seman, et al., Dec., p. 66.

C

CARRUTHERS, D., and WIMMER, J.
Gas turbines challenge ceramic technology, May, p. 22.
CASSIDY, D.E.
Aerospace '88: Legal aspects, Dec., p. 37.
CHENEY, H.K., and HOLZER, C.F.
Workhorse MD 90, Feb., p. 20.
CHRISTIAN, H., and BABCOCK, R.R. JR.
Aerospace '88: Atmospheric environment, Dec., p. 14.
CLOPP, H.W.
An occasion to mass produce, April, p. 26.
COUR-PALAIS, B.G., and AVANS, S.L.
Shielding against debris, June, p. 24.
COX, J.T.
How the station will operate, Sept., p. 20.
CRABB, T.M., KAIDY, J.T., and BASTEDO, W.G. JR.
Designing for operations and support, Nov., p. 18.
CRUSE, T.A.
Designing for uncertainty, Nov., p. 36.

D

DAILY, J.W.
Aerospace '88: Propellants and combustion, Dec., p. 67.
DAVEY, R.F.
Aerospace '88: Management, Dec., p. 19.
DAVIS, J.G., and DIXON, S.C.
Beyond simulation, July, p. 38.
DAVIS, N.W.
Gearing the H-2 for market competition, Jan., p. 12.
Japan is making FSX its own, June, p. 14.
Japan to process materials in microgravity, Sept., p. 14.
Japan takes charge, March, p. 23.
DeMEIS, R.
Injection molding of ceramics, July, p. 48.
AT3 and V-22, June, p. 28.
Tracking vorticity in flight, June, p. 42.
Composites break the ice, Sept., p. 46.
Deciphering clues to Soviet composites, Jan., p. 30.
Control muscle for agile aircraft, Feb., p. 32.
China's springboard to space, March, p. 16.
Stick-to-it riblets, Jan., p. 48.
Sweetening the orbital bottom line, Aug., p. 26.
Engineers for China's future, Jan., p. 6.
Another chance for canards, Oct., p. 24.
China's coming of age in space, May, p. 40.
DiCRISTINA, V.
Aerospace '88: Thermophysics, Dec., p. 57.
DIEHL, L.A., FREEMAN, D.C., and HENLEY, M.
Aerospace '88: Space transportation, Dec., p. 12.
DIXON, S.C.
See Davis, J.G., July, p. 38.
DOOLING, D.
Shuttle payloads: Little worse off than before, March, p. 10.

E

EMANUAL, G., HASTINGS, D.E., and GRABOWSKY, W.R.
Aerospace '88: Plasmadynamics and lasers, Dec., p. 24.
ETHELL, J.
Electronics investors to cash in on INF treaty, March, p. 54.
Close air support bogs down, Dec., p. 83.

F

FACEY, J.R.
Return of the turboprops, Oct., p. 14.
FRANSCINI, III, L.
Aerospace '88: Aerospace maintenance, Dec., p. 16.
FREEMAN, D.C.
See Diehl, et al., Dec., p. 12.
FREIWALD, D.A.
SDI boosts lightsat prospects, May, p. 70.
FRENCH, J.R.
Paperwork is a launch-vehicle roadblock, April, p. 16.
FRIEDMAN, H.
Piecing together the supernova puzzle, April, p. 38.
FRISCH, B.
Kryptonite they are not, May, p. 16.
FUHS, A.E., and MOSIER, M.R.
A niche for lightweight satellites, April, p. 14.

G

GARDNER, B.
See Petersen, et al., Dec., p. 62.
GERHARDT, M.S.
The language of abstraction, July, p. 32.
GIDDINGS, N.
Aerospace '88: Software, Dec., p. 15.
GOLD, R.M. JR.
A tight grip in tight spots, Oct., p. 40.
GRABOWSKY, W.R.
See Emanual, et al., Dec., p. 24.
GRAHAM, S.
Aerospace '88: Aircraft operations, Dec., p. 35.
GREENBERG, J.S.
Congress moves toward subsidizing ELVs, Aug., p. 8.
GREGORY, W.H.
Salvaging airline deregulation, July, p. 7.
GRENNAN, R.D.
Aerospace '88: Air breathing propulsion, Dec., p. 58.
GREY, J.
A lesson well learned, Nov., p. 5.
Space station's missing link, Sept., p. 58.
GRIFFIN, C.F., HARVILL, W.E., JOHNSON, R.R., and BOHLMANN, R.E.
Making high-tech composites in low-cost ways, May, p. 28.
GROENEWEG, J., SHEPHERD, K., and HENDERSON, W.
Toward the future, Oct., p. 20.

H

HALL, D.L.
Connectivity is the key, Sept., p. 24.
HALL, R.C.
NASA: Thirty years of space flight, Dec., p. 6.
HANLEY, A.
X-wing faces a tough comeback, April, p. 8.
HARFORD, J.J.
Cosmonaut prefers Earth orbit staging for Mars trip, April, p. 68.
Israeli aeronautics after Lavi, Nov., p. 8.
Letter from Helsinki, Sept., p. 10.
HARVILL, W.E.
See Griffin, et al., May, p. 28.
HASTINGS, D.E.
See Emanual, et al., Dec., p. 24.
HEFNER, J.N.
Dragging down fuel costs, Jan., p. 14.

HENDERSON, F.B., III
Advanced Landsat: Real or ruse?, Oct., p. 10.
HENDERSON, W.
See Groeneweg, J., Oct., p. 20.
HENLEY, M.
See Diehl, et al., Dec., p. 12.
HERTZFELD, H.
Aerospace '88: Economics, Dec., p. 49.
HOERNIG, O.W.
Computer infatuation, Sept., p. 7.
HOLMES, B.J.
NLF technology is ready to go, Jan., p. 16.
HOLZER, C.F.
See Cheney, H.K., Feb., p. 20.
HUNTER, W.W., BEST, J.T., and SATERLIE, S.F.
Aerospace '88: Ground testing, Dec., p. 56.

J

JAWORSKI, A.
See Roy, D.M., July, p. 10.
JEFFERSON, P.
Aerospace and campaign '88, Oct., p. 8.
Senator urges space advocates to speak with one voice, July, p. 14.
JOHNSON, D.P.
Aerospace '88: Digital avionics, Dec., p. 64.
JOHNSON, R.R.
See Griffin, et al., May, p. 28.
JONES, R.M.
Coffee-can-sized spacecraft, Oct., p. 36.

K

KAIDY, J.T.
See Crabb, et al., Nov., p. 18.
KAUFAMN, B.
See Melton, et al., Dec., p. 41.
KAWAI, M.
Cost-of-a-cassette air safety, Aug., p. 32.
KERRISK, D.J.
Aerospace '88: Space processing, Dec., p. 46.
KESSLER, D.J.
Predicting debris, June, p. 22.
KILGORE, R.A.
See Boyden, et al., June, p. 36.
KIMZEY, J.H.
Lubrication in space, Aug., p. 36.

L

LANGEREUX, P.
Europe's toughest space challenge, Aug., p. 12.
Renaissance of recoverable capsules, Feb., p. 11.
LERNER, E.J.
Linking islands of automation, Feb., p. 39.
Avionics that beat the numbers, May, p. 48.
Solid-state photomultiplier, Nov., p. 40.
Computers that learn, June, p. 32.
Computing with photons, Oct., p. 28.
SDI's software mountain, July, p. 28.
Back toward square one, March, p. 30.
Mission to Phobos, Sept., p. 34.
Midgetman survival linked to arms control, Feb., p. 6.
Simulator closes in on reality, April, p. 46.
The foreign chip threat: less than meets the eye, July, p. 58.
Collision avoidance in flying, April, p. 70.
Fixes emerge for U.S. engineering education, Jan., p. 56.
ASAT nears the end, Feb., p. 8.
LOFTUS, J.P., TILTON, E.L., and TEMPLE, L.P., III
Decision time on orbital debris, June, p. 16.
LOTSOF, J.
Aerospace '88: C3I, Dec., p. 54.
LOVECE, J.
Revival of unmanned aircraft, Nov., p. 10.
LOWNDES, J.C.
Keeping a sharp technology edge, Feb., p. 24.
Data-exchange curbs proving unworkable, Oct., p. 5.
One less excuse, Aug., p. 5.
Save the children, May, p. 5.
Route to the top, Jan., p. 5.
Science in the driver's seat, April, p. 5.
Necessary follow-through, Feb., p. 5.
Soviets selling sharpest satellite imagery, March, p. 8.
LUCAS, I.R., III
Aerospace '88: Air transportation, Dec., p. 42.

M

MADDALON, D.V.
See Wagner, et al., p. Jan., p. 20.
MANKINS, J.C.
Beyond the station, Sept., p. 30.
McATEE, T.P.
Agility in demand, May, p. 36.
McHAFFIE, J.C.
See Sundin, et al., Dec., p. 32.
McNULTY, M.
Aerospace '88: Structural dynamics, Dec., p. 51.
MELTON, R.G., STENGLE, T.H., and KAUFMAN, B.
Aerospace '88: Astrodynamics, Dec., p. 41.
MESSNER, A.M.
Aerospace '88: Solid rockets, Dec., p. 38.
MOMBERGER, M., and SCHMITZ, A.L.
Aeronautics in Germany, April, p. 49.
MORGAN, W.L., and STREETER, C.A.
Satellite communication's ace in the hole, May, p. 32.
MOSER, T.L.
Getting ready to go, Sept., p. 16.
MOSIER, M.R.
See Fuhs, A.E., April, p. 14.
MURACA, R.
Aerospace '88: Space systems, Dec., p. 44.
MURPHY, P.C.
Aerospace '88: Atmospheric flight mechanics, Dec., p. 50.

N

NARDO, C.T.
Aerospace '88: Missiles, Dec., p. 72.
NOOR, A.K.
Computer-enhanced learning, Sept., p. 40.

O

OWEN, K.
Toward permanence in joint defense R&D, Oct., p. 12.
Transonic tunnel gets go-ahead, Sept., p. 12.
Airlifter consortium is growing, April, p. 10.
Airbus to clean house, June, p. 12.
Rise of the super transputer, July, p. 16.
Reshuffling the missile deck, Nov., p. 12.
U.K. breaks with continental Europe, Jan., p. 10.
West German wavering threatens EFA go-ahead, March, p. 14.
AWACS no pot of gold, May, p. 12.

P

PADDOCK, S.G.
See Bennett, G.R., Nov., p. 21.
PETERSEN, K., WAITES, H., and GARDNER, B.
Aerospace '88: Guidance, navigation, and control, Dec., p. 62.
PETERSON, V.L., and BAILEY, F.R.
Close to real life, July, p. 18.
PISACANE, V.L., and SLIWA, N.
Aerospace '88: Computer systems, Dec., p. 68.
POTTER, A.E.
Measuring debris, June, p. 18.

R

RADOVCICH, N.
Active control in tomorrow's marketplace, Aug., p. 20.
RAHA, J.E.
Aerospace '88: Aircraft design, Dec., p. 70.
ROBSON, R.
See Siddiqi, S., Feb., p. 14.
ROGERS, T.F.
Triggering private demand for space travel, June, p. 5.
ROY, D.M., and JAWORSKI, A.
Birth of a programming language, July, p. 10.

S

SALKELD, R.
Far space shuttle, Nov., p. 32.
SATERLIE, S.F.
See Hunter, et al., Dec., p. 56.
SCHMITZ, A.L.
See Momberger, M., April, p. 49.
SCHREIB, R.
Aerospace '88: Electric propulsion, Dec., p. 61.
SEMAN, R.M., BUTLER, C.N., and ZIER, E.A.
Aerospace '88: Systems effectiveness and safety, Dec., p. 66.
SHEPHERD, K.
See Groeneweg, et al., Oct., p. 20.
SIDDIQI, S., and ROBSON, R.
Flight testing keeps pace, Feb., p. 14.
SIDDIQI, S.
Aerospace '88: Flight testing, Dec., p. 52.
SIEMERS, P.M.
See Anderson, et al., April, p. 30.
SIEVERS, G.K.
See Whitlow, J.B. JR., Oct., p. 15.
SIMPSON, T.R.
Proposed FY89 NASA budget: Real or a mirage?, June, p. 10.
Space policy aims at Moon and Mars, May, p. 8.
SLIWA, N.
See Pisacane, V.L., Dec., p. 68.
SMETANA, F.O.
Aerospace '88: General aviation, Dec., p. 48.
SPEARE, J.C.
Aerospace '88: Structures, Dec., p. 22.
STENGLE, T.H.
See Melton, et al., Dec., p. 41.
STEPHENSON, A.
Aerospace '88: Space operations and support, Dec., p. 26.
STEPHENSON, A.G.
The orbital maneuvering vehicle, Nov., p. 24.
STOLARSKI, R.S.
Watching a disappearing shield, Oct., p. 32.
STREETER, C.A.
See Morgan, W.L., May, p. 32,
SUNDIN, T.A., McHAFFIE, J.C., and BROWN, R.M.
Aerospace '88: Support systems, Dec., p. 32.
SWINK, D.G.
Aerospace '88: Liquid propulsion, Dec., p. 21.

T

TAYLOR, T.D.
Fitting the computer to the job, April, p. 34.
TCHENG, P.
See Boyden, et al., June, p. 36.
TEMPLE, III, L.P.
See Loftus, et al., June, p. 16.
THOMPSON, J.R.
Close enough to count, March, p. 5.
THOMPSON, G.A.
Aerospace '88: Interactive computer graphics, Dec., p. 29.
TILTON, E.L.
See Loftus, et al., June, p. 16.

W

WAGNER, R.D., BARTLETT, D.W., and MADDALON, D.V.
Laminar flow control is maturing, Jan., p. 20.
WAITES, H.
See Petersen, et al., Dec., p. 62.
WALSH, M.J.
See Anders, et al., Jan., p. 24.
WASHBURN, R.M.
Aerospace '88: Materials, Dec., p. 30.
WATKINS, J.W., and BARNARD, G.A.
Aerospace '88: Aerodynamic decelerators, Dec., p. 53.
WEISSHAAR, T.A.
Coupling structure and controls design, Aug., p. 18.
WELLS, V.L.
Aerospace '88: Aeroacustics, Dec., p. 36.
WHITLOW, J.B. JR., and SIEVERS, G.K.
Building the foundation, Oct., p. 15.
WIMMER, J.
See Carruthers, D., May, p. 22.
WIRIN, W.B.
Standstill on orbital debris policy, June, p. 8.
WOLDANSKI, M.
Options double in high performance tapes, May, p. 56.
WOOD, G.M. JR.
See Anderson, et al., April, p. 30.
WRIGHT, O., JR.
Squeezing the test cycle, Feb., p. 17.

Z

ZIER, E.A.
See Seman, et al., Dec., p. 66.